

AsCas12a Nuclease (active enzyme, MALS verified)

Catalog # CAA-A5143



BIOSYSTEMS
Acro

Product Details

AsCas12a Nuclease is a recombinant *Acidaminococcus* sp. BV3L6 Cas12 protein purified from *Escherichia coli* for CRISPR-based genome editing. Unlike the specific recognition sequence of Cas9, the Cas12a protein recognition AT-rich sequence.

Application

Developed as a powerful gene editing tool.

Concentration

5 µg/µL

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Formulation

Supplied as 0.2 µm filtered solution in 20 mM Tris, 300 mM NaCl, pH 7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

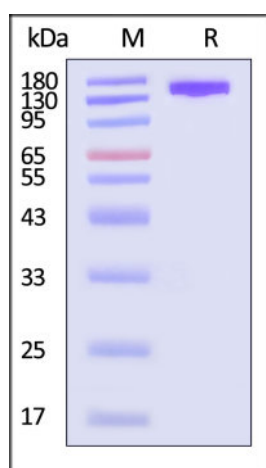
This product is supplied and shipped with dry ice, please inquire the shipping cost.

Storage

This product is stable after storage at:

- The product **MUST** be stored at -70°C or lower upon receipt.
- -70°C for 3 months under sterile conditions.

SDS-PAGE

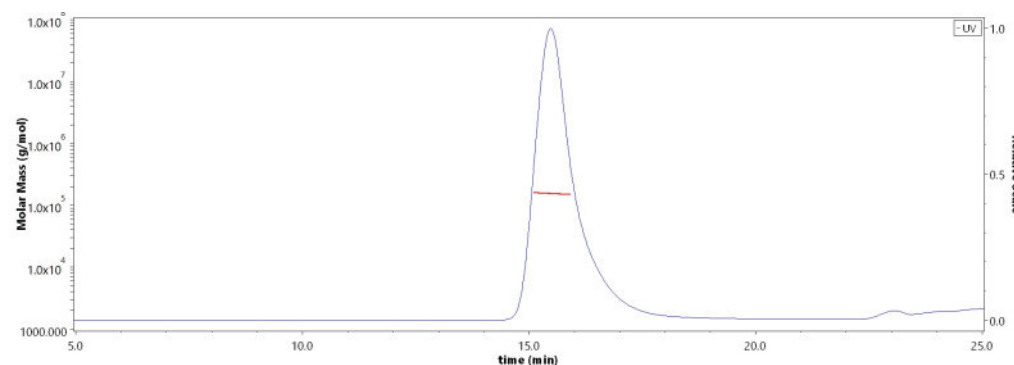


The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity

Measured by its ability to cleave a targeted DNA substrate. Cas12a achieves >90% substrate cleavage (QC tested).

SEC-MALS



The purity of AsCas12a Nuclease (Cat. No. CAA-A5143) is more than 95% and the molecular weight of this protein is around 145-185 kDa verified by SEC-MALS.

[Report](#)

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